

CITY OF CHULA VISTA

LOW CARBON
MUNICIPAL FLEET
OPPORTUNITIES &
BARRIERS



The City's Fleet

558 Total Vehicles

Biodiesel = 146 vehicles

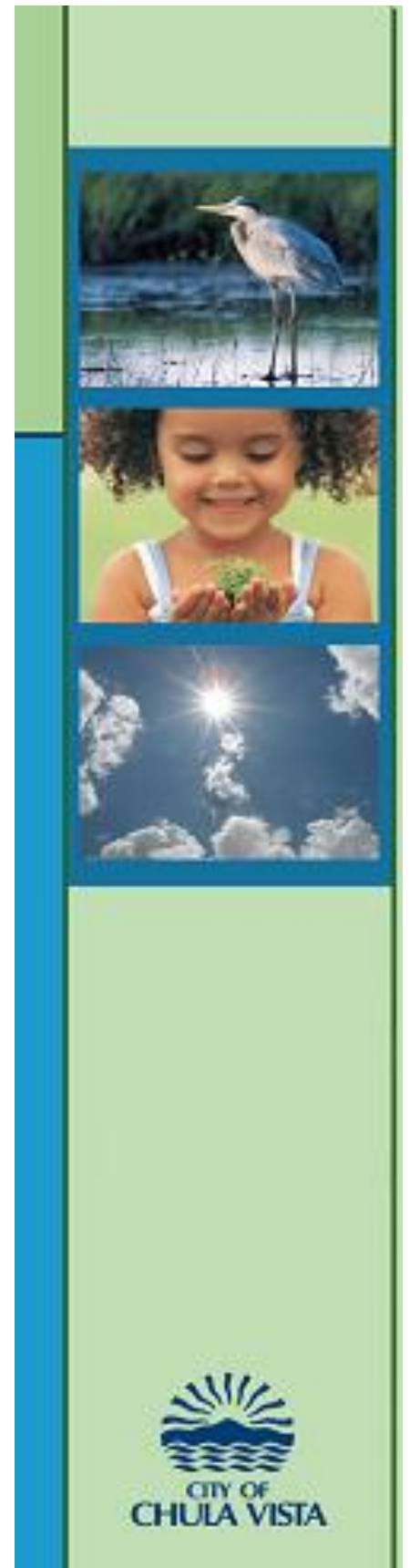
CNG = 12 vehicles

Propane = 2 vehicles



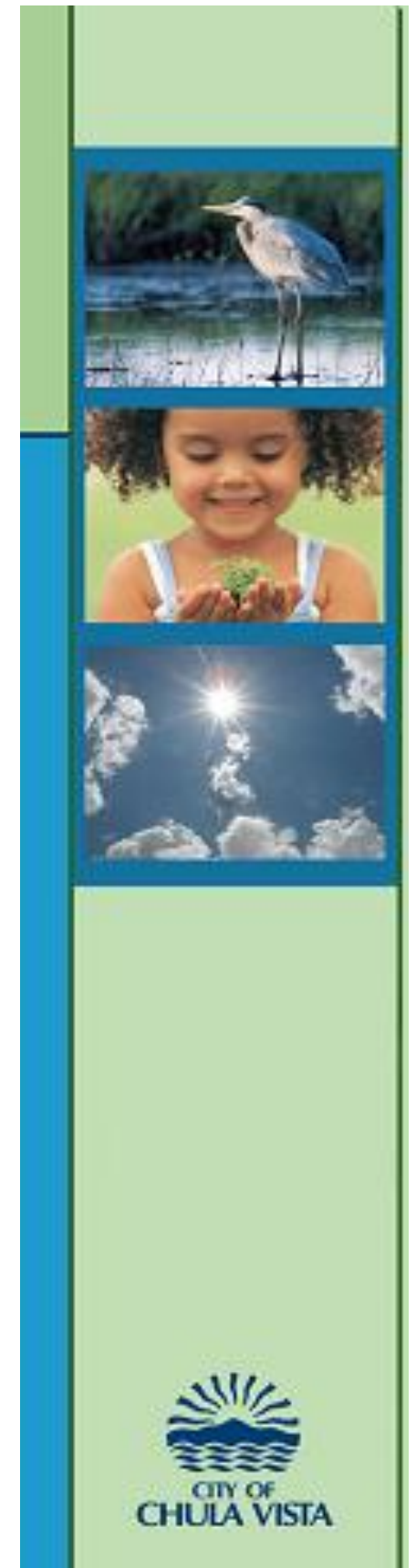
The City's Infrastructure – gasoline and biodiesel tanks

- Each 12,000 gallon capacity
- Fuel purchased under countywide contract



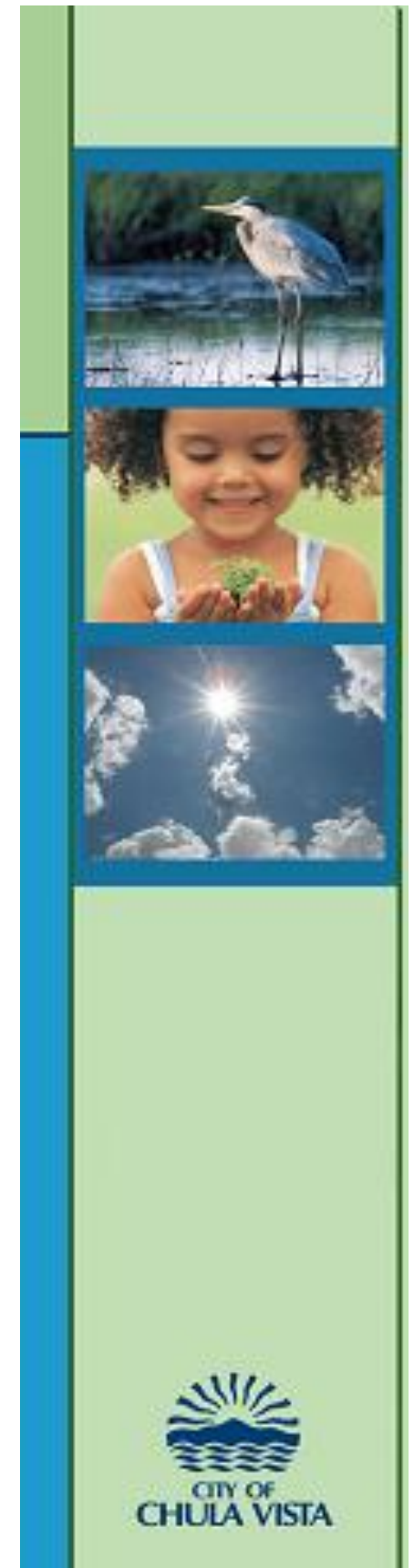
The City's Infrastructure – CNG Compressors/Dispenser

- Two Compressed Natural Gas (CNG) compressors that automatically alternate



The City's Infrastructure – Propane Tank

- On loan from propane provider on condition we purchase all of our propane from them



Low Carbon Municipal Fleet Biodiesel Pros and Cons

- Pros
 - Easy conversion from conventional fuel
 - Possibly no infrastructure cost
 - Immediate 20% displacement of fossil fuel usage (B20)
- Cons
 - Higher fuel cost
 - May not be readily assessable
 - Some possible regulatory hurdles



Low Carbon Municipal Fleet CNG Pros and Cons

- Pros
 - Low fuel cost
 - Cleaner burning
 - Tax credit and rebate opportunities
- Cons
 - Vehicles 50-75% more expensive to purchase
 - High infrastructure costs (roughly \$1 million to construct/install a compressor) -or-
 - May not be readily assessable (San Diego only has a limited number of fuel depots)
 - Small fuel tanks (limited range)



Low Carbon Municipal Fleet

Propane Pros and Cons

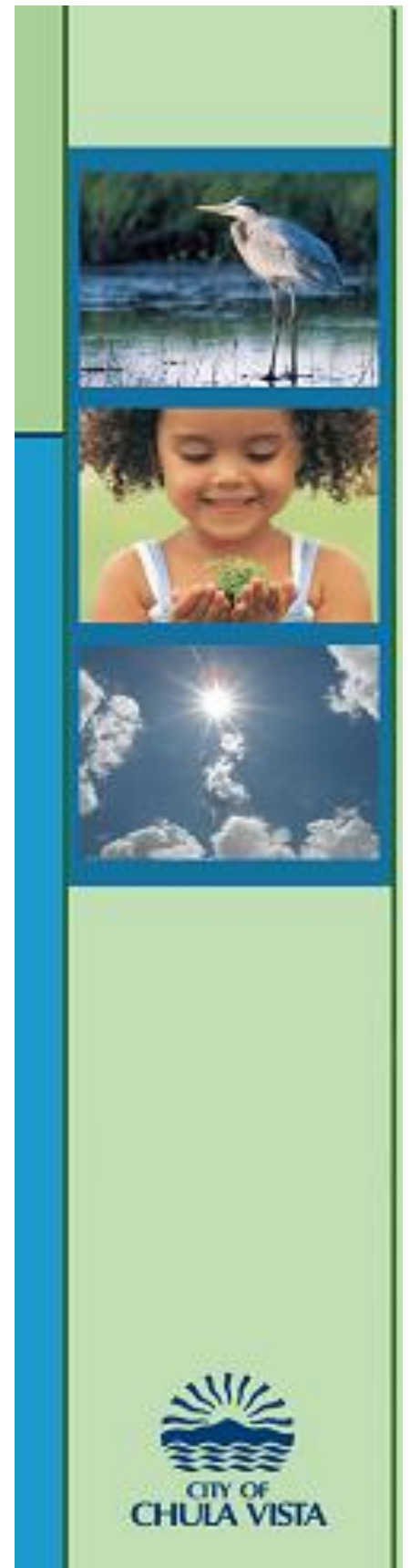
- Pros
 - Low fuel cost
 - Cleaner burning
- Cons
 - Very limited vehicle availability
 - May not be readily assessable
 - Small fuel tanks (limited range)



Low Carbon Municipal Fleet - Opportunities

- Cleaner Fuel/Lower Emissions
 - Helps City meet Council mandated climate change goals
- Lower Fuel Costs for CNG/Propane*
 - Gasoline = \$3.36504 per gallon
 - Biodiesel = \$3.36874 per gallon
 - CNG = \$0.68 per gallon
 - Propane = \$2.8029
- Tax Credits and Rebates
 - Federal alternative fuel credit and state credits and rebates reduce the payback period of investments

* as of May 6, 2013



Low Carbon Municipal Fleet – Recommendations

- Look for a Partner
 - Local transit or water/wastewater agencies may help pay for your infrastructure or purchase your fuel
 - Vendors may fund infrastructure in exchange for fuel surcharge or sole source
- Structure Vehicle Purchase or Investments to Capture Credits/Rebates
 - Government doesn't pay taxes
- Look at Contracting Opportunities
 - Include low carbon options when requesting bids for services (i.e. street sweeping)



Contact Information

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